Informal document No. GRPE-59-21 (59th GRPE, 12-15 January 2010, Agenda item 2(d))

Proposal for draft amendments to ECE/TRANS/WP.29/GRPE/2010/5

(Regulation No. 49)

As a conclusion of the GRPE expert meeting on Euro-5 requirements (held in Geneva on 12 January 2010), this document was prepared by the experts from the European Commission to align the requirements of Regulation No. 49 with those of Regulation No. 83 with regard to the Euro 5 emissions level. It has been prepared as a revised version of document ECE/TRANS/WP.29/GRPE/2010/5. The amendments to that document are marked a grey highlighted characters.

PROPOSAL

The titel of document ECE/TRANS/WP.29/2009/75,: amend to read:

Proposal for amendments to the 06 05 series of amendments to Regulation No. 49

(Emissions of C.I. and P.I. (NG and LPG) engines)

Paragraph 1.1., amend to read:

"1.1. This Regulation shall apply to motor vehicles of categories M_1 , M_2 , N_1 and N_2 with a reference mass exceeding 2,610 kg and to all motor vehicles of categories M_3 and N_3 . 1/2

At the request of the manufacturer, the type approval of a completed vehicle given under this Regulation shall be extended to its incomplete vehicle with a reference mass below 2,610 kg. Type approvals shall be extended if the manufacturer can demonstrate that all bodywork combinations expected to be built onto the incomplete vehicle increase the reference mass of the vehicle to above 2,610 kg.

The following do not need to be approved according to this Regulation: engines mounted in vehicles of up to 2,840 kg reference mass to which an approval to Regulation No. 83 has been granted as an extension.

At the request of the manufacturer, the type approval of a vehicle granted under this Regulation shall be extended to its variants and versions with a reference mass above 2,380 kg provided that it also meets the requirements relating to the measurement of greenhouse gas emissions and fuel consumption.

Vehicle Positive-ignition engines Compression-ignition engines NG (a) LPG (b) category <u>1</u>/ Petrol Diesel Ethanol R49 or R83 (c) R49 or R83 (c) R49 or R83 (c) R49 **or R83** ^(c) R49 or M_1 R83 (c) R49 or R49 or R83 (c) R49 or R83 (c) R49 or R83 (c) R49 or R83 (c) M_2 R83 (c) **R49** M_3 R49 R49 R49 R49 R49 or R83 (c) R49 or R83 (c) R49 or R83 (c) R49 or R83 (c) R49 or N_1 R83 (c) R49 or R49 or **R83** (c) R49 or **R83** (c) R49 or R83 (c) R49 or **R83** (c) N_2 R83 (c) **R49** R49 R49 R49 R49 N_3

Table A: APPLICABILITY

⁽a) Natural Gas.

⁽b) Liquefied Petroleum Gas.

Regulation No. 83 applies only for vehicles with a reference mass $\leq 2,610 \text{ kg}$ and by extension of an approval for vehicles with a reference mass $\leq 2,840 \text{ kg}$

given for a vehicle of categories M₁ or N₁. 1/

"R49 or R83" means that manufacturers can obtain type approval according to this Regulation or to Regulation No. 83, see paragraph 1.2.

1/ As defined in Annex 7 to the Consolidated Resolution on the Construction of Vehicles (R.E.3), (document TRANS/WP.29/78/Rev.1/Amend.2, as last amended by Amend.4).

Table B: REQUIREMENTS

	Positive-ignition engines			Compression-ignition engines	
	Petrol	NG	LPG	Diesel	Ethanol
Gaseous pollutants	-	Yes	Yes	Yes	Yes
Particulates	-	Yes (a)	Yes (a)	Yes	Yes
Smoke	-	ı	-	Yes	Yes
Durability	-	Yes	Yes	Yes	Yes
In-service-conformity	-	Yes	Yes	Yes	Yes
OBD	-	Yes (b)	Yes (b)	Yes	Yes

Only applicable to stage C in Table 2 of paragraph 5.2.1.

Insert a new paragraphs 2.1.64.-2.1.66., to read:

- "2.1.64. "Reference mass" means the "unladen mass" of the vehicle increased by a uniform figure of 100 kg for test according to Annexes 4a and 8 of Regulation No. 83."
- 2.1.65. "Unladen mass" means the mass of the vehicle in running order without the uniform mass of the driver of 75 kg, passengers or load, but with the fuel tank 90 per cent full and the usual set of tools and spare wheel on board, where applicable;
- "2.1.66. "Running order mass" means the mass described in Paragraph 2.6. of Annex 1 to the Regulation No. 83. and for vehicles designed and constructed for the carriage of more than 9 persons (in addition to the driver), the mass of a crew member (75 kg), if there is a crew seat amongst the nine or more seats."

- - - - -

⁽b) Application dates according to paragraph 5.4.2."